

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:)
)
GEORGE V. KINAL ET AL.) GROUP ART UNIT: 2682
)
SERIAL NO.: UNASSIGNED) EXAMINER: R. Persino
DIV. OF SERIAL NO.: 09/490,154)
)
FILED: HEREWITH)
)
FOR: METHOD AND APPARATUS FOR A)
SATELLITE PAYLOAD AND) ATTY. DKT. NO. 002918.00022
RADIODETERMINATION (as amended))

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with Applicants' duty of disclosure, the enclosed information is submitted to the United States Patent and Trademark Office in connection with the above-identified application. The information is identified on the attached PTO Form-1449.


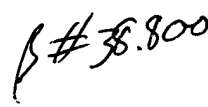
This application relies, under 35 U.S.C. §120, on the earlier filing date of prior U.S. Application Serial Nos. 09/490,154 filed on January 24, 2000 and 08/730,208 filed on October 15, 1996. The references identified on the attached Form PTO 1449 were submitted to and/or cited by the Patent and Trademark Office in these prior applications and, therefore, copies are not required to be provided in this application. See 37 C.F.R. Section 1.98(d).

Applicant does not waive any right to take appropriate action to establish patentability over the listed documents should they be applied as references against the claims of the present application.

GEORGE V. KINAL ET AL. (Divisional of U.S. Serial No. 09/490,154)

It is respectfully requested that the Examiner fully consider each of the documents, initial the enclosed Form PTO-1449 in the appropriate place to indicate that the document has been considered, and return a copy of the initialed form to the undersigned in accordance with MPEP Section 609.

Respectfully submitted,

By: 
for Joseph M. Potenza
Registration No. 28,175 

BANNER & WITCOFF, LTD
1001 G Street, N.W., 11th Floor
Washington, D.C. 20001
(202) 824-3000

Dated: January 5, 2004

PTO-1449 (Modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY. DOCKET NO. 002918.00022	SERIAL NUMBER Div. of 09/490,154
	APPLICANT George V. Kinal et al.	
	FILING DATE Herewith	GROUP ART UNIT 2682

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
	5,828,336	10/1998	Yunck et al.			
	5,621,646	04/1997	Enge et al.			
	5,455,823	10/1995	Noreen et al.			
	5,444,451	08/1995	Johnson et al.			
	5,428,358	06/1995	Gardner			
	5,365,447	11/1994	Dennis			
	5,345,245	09/1994	Ishikawa et al.			
	5,323,322	06/1994	Mueller et al.			
	5,099,245	03/1992	Sagey			
	4,754,465	06/1988	Trimble			
	4,751,512	06/1988	Longaker			
	4,744,083	05/1988	O'Neill et al.			
	4,652,884	03/1987	Starker			
	4,613,864	09/1986	Hofgen			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO	
	WO 95/18977	07/1995	WIPO			X	
	0 609 935 A2	08/1994	EPO			X	
	GB 2 180 526 A	04/1987	Great Britain			X	
	GB 2 264 837 A	09/1993	Great Britain			X	
	WO 94/12892	06/1994	WIPO			X	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	C.B. Lee et al., "Development of a GPS Codeless Receiver for Ionospheric Calibration and Time Transfer," IEEE Transactions on Instrumentation and Measurement, Vol. 42, No. 2, April 1993, pages 494-497.

EXAMINER: Initial citation if reference was considered. Draw line through citation if not in conformance to MPEP 609 and not considered. Include copy of this form with next communication to applicant.

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
	5,422,647	06/1995	Hirshfield et al.			
	4,445,118	04/1984	Taylor et al.			
	4,359,733	11/1982	O'Neill			
	4,114,155	09/1978	Raab			
	4,463,357	07/1984	MacDoran			
	4,809,005	02/1989	Counselman, III			
	3,866,229	02/1975	Hammack			
	3,384,891	05/1968	Anderson			

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO	
	01107180 A		Japan				
	0 242 115 B1		EP				
	0 604 404 A2		EP				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	George V. Kinal et al., "INMARSAT INTEGRITY CHANNELS FOR GLOBAL NAVIGATION SATELLITE SYSTEMS," 1992 IEEE, pp. 3-5 through 3-8.
	L. Caporicci and Soddu, "GPS INTEGRITY MONITORING AND SYSTEM IMPROVEMENT WITH GROUND STATION AND MULTISTATIONARY SATELLITE SUPPORT," 1992 IEEE, pp. 559-565.
	Barry A. Stein and Wai L. Tsang, "GLOBAL POSITIONING SYSTEM INTEGRITY CHANNEL: A SYSTEM DESIGN ANALYSIS," 1990 IEEE, pp. 576-581.
	Inmarsat, "Paper I, GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS) ALTERNATIVES FOR FUTURE CIVIL REQUIREMENTS," April 12, 1994, pp. 1-7.
	Inmarsat, "IMPLEMENTATION OF THE GNSS INTEGRITY CHANNEL AND FUTURE GNSS GROWTH CONSIDERATIONS," October 1993, pp. 1-10.
	Inmarsat, "EVOLUTION CIVIL GNSS TAKING ADVANTAGES OF GEOSTATIONARY SATELLITES," June 1993, pp. 1-9.
	Inmarsat, "GEOSTATIONARY AUGMENTATION OF GLOBAL SATELLITE NAVIGATION," November 1991, twelve (12) pages.
	Inmarsat, "INTEGRITY MONITORING OF GPS AND GLONASS," April 1992, pp. 1-6.
	Inmarsat, "STATUS OF INMARSAT INTEGRATED NAVIGATION/COMMUNICATIONS ACTIVITIES," June 1991, six (6) pages.
	Inmarsat, "NARROWBAND (Communications Frequency) AND WIDEBAND (Navigation Frequency)," March 1990, pp. 1-7.
	Inmarsat, "GEOSTATIONARY REPEATERS: A LOW COST WAY TO ENHANCE CIVIL USER PERFORMANCE OF GPS AND GLONASS," March 1990, pp. 1-8.
	GPS Navstar Global Positioning System, "GLOBAL POSITIONING SYSTEM STANDARD POSITIONING SERVICE SIGNAL SPECIFICATION," 2 nd Edition, June 2, 1995, pp. 1-46; and attaching ANNEXES A-C.

EXAMINER: Initial citation if reference was considered. Draw line through citation if not in conformance to MPEP 609 and not considered. Include copy of this form with next communication to applicant.